

Growth Curves + Microscopy

1. Start a culture from single colony in the appropriate media.
2. Grow to mid-log. Prepare fixative in the meantime.
3. Back-dilute to OD₆₀₀ ~0.005. This is especially important if you will be comparing multiple strains for growth-dependent characteristics such as cell length; all samples should be fixed at similar ODs.
4. For a full curve, grow ~8 h, taking a time point OD₆₀₀ every 30 min. Plot on a semilog scale.

or

1. Inoculate an O/N culture from a single colony.
2. Back dilute 1:100 in ~20-25mL for an OD₆₀₀~0.005
3. Follow growth until OD=1.0 (or desired OD), sampling every 30 min. Plot on a semilog scale.
4. Fix for cell wall stain at OD~0.5.